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THE PLANT DISEASE REPORTER

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PLANT DISEASE EPIDEMICS
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IDENTIFICATION SECTION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

HOST INDEX OF VERTICILLIUM ALBO-ATRUM REINKE & BERTH. (INCLUDING VERTICILLIUM DAHLIAE KLEB.)

Supplement 244 June 15, 1957

The Plant Disease Reporter is issued as a service to plant pathologists throughout the United States. It contains reports, summaries, observations, and comments submitted voluntarily by qualified observers. These reports often are in the form of suggestions, queries, and opinions, frequently purely tentative, offered for consideration or discussion rather than as matters of established fact. In accepting and publishing this material the Plant Disease Epidemics and Identification Section serves merely as an informational clearing house. It does not assume responsibility for the subject matter.

THE PLANT DISEASE REPORTER

PLANT DISEASE EPIDEMICS AND IDENTIFICATION SECTION

Crops Research Division Plant Industry Station, Beltsville, Maryland

HOST INDEX OF VERTICILLIUM ALBO-ATRUM REINKE & BERTH. (INCLUDING VERTICILLIUM DAHLIAE KLEB.)

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Plant Disease Reporter
Supplement 244

June 15, 1957

INTRODUCTION

This is an index of plants reported to be hosts of Verticillium albo-atrum Reinke & Berth. Plants reported as hosts of V. dahliae Kleb. are also included, as some mycologists and pathologists consider this pathogen identical with V. albo-atrum. The Index was prepared as a convenience and guide for persons wanting a quick and handy reference to reported hosts of V. albo-atrum. It should not be considered as a final reference or source when determining if a plant in question is a recorded host of V. albo-atrum. The final source of information should be the original publication in which the plant was cited.

An attempt was made to include: 1) all plants reported as hosts in the United States, and 2) all plants reported in some other country but not for the United States. Reports of plants susceptible to Verticillium sp. or spp., Verticillium disease, Verticillium hadromycosis, etc., are not included. It should also be borne in mind that, owing to the nature of this pathogen, plants are reported as being hosts after successful isolation of V. albo-atrum from them. Many of the citations listed herein are of this type.

This Host Index is divided into four parts as follows:

Section A -- Woody Plants	
Part 1	Trees
Part 2	Shrubs, bushes, small fruits, lianas
Section B -- Herbaceous Plants	
Part 3	Field crops, vegetables, small fruits
Part 4	Ornamentals, "flowers", weeds

As some plants may be listed in more than one part, it is suggested that all possible places where a plant in question may be listed be checked. This is true where certain shrubs may also be small trees. The genus Aralia, for example, includes species that are trees, shrubs, and herbaceous plants.

The scientific names of the hosts are usually listed as presented by the original author. When no scientific name was given by the author, and one was needed for alphabetizing purposes, the generic name is usually added in parentheses, for example (Ribes ___). Where several scientific names are extant in the literature, the preferred names given in the eighth edition of "Gray's Manual of Botany" by Fernald and/or "Manual of Cultivated Plants" by Bailey are used.

Common names are usually listed only when the author of the original citation gave one.

Literature citations listed under the "Reference" column were abbreviated so they would fit the page more easily. Below are examples of abbreviations used followed by the full name of the publication.

B. A.	Biological Abstracts
P. D. R.	Plant Disease Reporter
P. D. R. Suppl.	Plant Disease Reporter Supplement
R. A. M.	Review of Applied Mycology
Rud.	Rudolph, B. A. (See page 24 for complete citation and comment)

[1] Illinois Natural History Survey, Section of Applied Botany and Plant Pathology, Urbana, Illinois.

Weiss	Refers to the five volumes of the "Index of Plant Diseases in the United States" by Freeman Weiss and Associates (see page 24 for complete citation)
Weiss P. D. R. Index.	See Weiss above.

The "Remarks" columns in the tables were used to include extra items of information that were considered important enough to mention. Some of the items listed in the "Remarks" column are explained below.

V. dah.	All plants in this Index are hosts of V. albo-atrum unless otherwise indicated. V. dah. indicates that the plant was reported as a host of V. dahliae. V. a-a or V. dah. indicates that no distinction was made between the two fungi by the author and the original publication should be consulted for more definite information.
1st report etc.	When the original author indicated that a particular plant was not previously reported to be a host in a certain State, the United States, or the world, such a statement was included under the "Remarks" column. First report, as stated by an author, apparently indicates the first world report.

The literature surveyed in the preparation of this Host Index is listed below:

1. Biological Abstracts: Vol. 1, 1927 through Vol. 27, 1953.
2. Illinois State Academy of Science Proceedings: Vol. 1, 1908 through Vol. 47, 1955.
3. Phytopathology: Only a few issues.
4. Plant Disease Reporter: Vol. 1(1), 1917 through Vol. 39(12), 1955.
5. Plant Disease Reporter Supplements: No. 1, 1918 through No. 235, 1955.
6. Review of Applied Mycology: Vol. 1, 1922 through Vol. 32, 1953.
7. Rudolph, B. A.: 1931. Verticillium hadromycosis. Hilgardia 5(9): 197-353. (This is an excellent review of Verticillium hadromycosis and should be consulted for comments on older contributions in the field).
8. Weiss, Freeman: 1940-1942. Revised Checklist of Diseases of Economic Plants of the United States. Plant Disease Reporter 24(7), 1940 through Vol. 26(23), 1942. (This checklist includes only woody plants and was issued in sections in the above indicated volumes. All of the information in this checklist was apparently included in the 1950-1953 checklist by Weiss and Associates -- see No. 9)
9. Weiss, Freeman: 1950-1953. Index of Plant Diseases in the United States. U. S. Dept. Agr. Plant Disease Survey Special Publication 1 (Muriel J. O'Brien is co-author of Parts IV & V).

1950:	Part I.	Acanthaceae - Compositae
	Part II	Convolvulaceae - Gnetaceae
	Part III	Gramineae
1952:	Part IV	Guttiferae - Phytolaccaceae
1953:	Part V	Pinaceae - Zygophyllaceae

10. United States Department of Agriculture. 1953. Plant Diseases. Yearbook of Agriculture 1953.

HOSTS OF VERTICILLIUM ALBO-ATRUM REINKE & BERTH. (INCLUDING V. DAHLIAE KLEB.)

A — WOODY PLANTS — Part 1. TREES

Scientific Name	Common Name	Location	Reference	Remarks
Acer macrophyllum Pursh.	bigleaf maple	Cal., Oregon, Wash.	Weiss I: 19. 1950	
Acer mono	painted maple	Tenn.	P.D.R. 39(11): 882. '55	
Acer negundo L.	boxelder	N.E. and north-central states to Va., Tenn., and Ill.	Weiss I: 12. 1950	
Acer negundo var. californicum (Torr. & Gray) Sarg.	California boxelder		Weiss I: 20. 1950	
Acer nigrum Michx. f.	black maple	Ill.	P.D.R. 22(12): 253-4. '38	
Acer palmatum Thunb.	Japanese maple		Weiss I: 20. 1950	V. a-a or dah.
Acer palmatum Thunb. var. rubrum Schweren	Japanese red maple	See ref.	Rud. 308. 1931	
Acer platanoides L.	Norway maple	Ill.	P.D.R. 22(12):253-4. '38	
Acer platanoides L.	Norway maple	General - U.S.	Weiss I: 21. 1950	
Acer platanoides schwedleri Koch	Schwedler's maple	Ill.	P.D.R. 22(12):253-4. '38	
Acer pseudoplatanus L.	sycamore maple	Conn., Mo., Va.	P.D.R. 24(10):198. 1940	
Acer pseudoplatanus L.	sycamore maple		Weiss I: 20. 1950	V. a-a or dah.
Acer rubrum L.	red maple	Ill.	P.D.R. 22(12):253-4. '38	

A -- WOODY PLANTS - Part 1. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Acer rubrum L.	red maple		Weiss I: 12. 1950	See ref.
incl. A. r. drummondii (Hook. & Arn.) Sarg.	Drummond maple			
A. r. trilobum (K. Koch)	trident maple			
Acer saccharinum L.	silver maple		Weiss I: 12. 1950	
Acer saccharum Marsh.	hard maple	Ill.	P. D. R. 22(12):253-4. '38	1st Ill. case 1926.
Acer saccharum Marsh.	sugar maple		Weiss I: 12. 1950	
Aesculus hippocastanum	horse chestnut	Germany	R. A. M. 9:6. 1930	Apparently 1st report
	horse chestnut	Germany	R. A. M. 12: 117. 1933	
Ailanthus altissima (Mill.) Swingle	ailanthus, Tree-of-heaven	N. Y., Pa., Va.	Weiss 5: 1092. 1953	
Ailanthus glandulosa		France	Biol. Abst. 7:20513. 1933	V. dah.
Ailanthus glandulosa		Italy	Biol. Abst. 11(3): 5478. 1937	
Catalpa bignonioides Walt.	southern catalpa	Ill., N. J., N. Y.	Weiss I: 91. 1950	
Catalpa speciosa Warder	western catalpa	Ill.	P. D. R. 22(12): 253-4 1938	Carter 1st report
Catalpa speciosa Warder	northern catalpa	Ill., N. J., N. Y.	Weiss I: 91. 1950	
Ceratonia siliqua L.	carob, St. John's bread	Cal.	Weiss IV. 594. 1952	

A -- WOODY PLANTS - Part 1. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Cercis canadensis L.	redbud	Ill.	P.D.R. 29(3):95-96. 1945	Carter
Cercis siliquastrum		Italy	Biol. Abst. 11(3): 5478. 1937	Isolates considered identical with V. a-a.
Cinnamomum camphora Nees & Eberm.	camphor tree	Calif.	P.D.R. 39:693. 1955	1st report
Clasdrastis lutea Koch	yellow wood	Ill.	P.D.R. 24(6):133-4. 1940	1st report in Ill.
(Cydonia _____)	Quince	France	B.A. 15:1278. 1941	V. dahliae
	Quince	England	Ann. Rpt. E. Malling Res. Sta. 1936: 189. 1936	
	Quince seedlings	Belgium	R.A.M. 19:157. 1940	V. dahliae (on seedlings imported from Holland and France)
Diospyros kaki L.f.	Japanese persimmon	Texas	P.D.R. Sup. 135:41 1942	
Diospyros texana Scheele	Texas persimmon	Texas	Weiss II. 301. 1950	
(Fagus _____)	beech	Germany	R.A.M. 9: 6. 1930	
Fraxinus pennsylvanica lanceolata	green ash	Colorado	P.D.R. 34:83. 1950	1st report
	ash	Baarn, Holland	R.A.M. 12:665. 1933	
	ash	Holland	R.A.M. 31:478. 1952	V. dahliae

A -- WOODY PLANTS - Part 1. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
(Juglans regia L.)	English walnut	France	B.A. 4:327. 1930	V. dahliae
Koelreuteria paniculata	goldenrain-tree	Italy	B.A. 11(3):5478. 1937	Isolates considered identical with V. a-a.
Liriodendron tulipifera	tulip tree	France	B.A. 5:22793. 1931	V. dahliae
Maclura aurantiaca L.		Italy	B.A. 11(1):258. 1937	Apparently 1st report
Musa sapientum L.	banana	Brazil	Rud. 304. 1931	Vert (?) see ref.
Musa _____	banana		R.A.M. 12:39. 1933	
	banana	West Indies	R.A.M. 9:6. 1930	
Olea europea L.	olive	Cal.	P.D.R. 34:26-7. 1950	1st U.S. Report
	olive	Italy	R.A.M. 27:317. 1948	
Persea americana Mill.	avocado	Cal.	Weiss IV: 576. 1952	
Pistacia vera L.	pistachio	Cal.	P.D.R. 34(1):26-7. 1950	1st world report
Populus tremula	aspen	Germany (East Prussia)	R.A.M. 13:338. 1934	
Prunus amygdalus Batsch	almond	Cal., Ill.	Weiss V: 964. 1953	
Prunus communis Fritsch	almond	Ill.	P.D.R. 22(12):253-4 1938	
	almond	Rhone Valley (Germany)	R.A.M. 12:76. 1933	V. dahliae

A -- WOODY PLANTS - Part 1. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Prunus armeniaca L.	apricot	Wash.	P. D. R. 33:99. 1939	1st Wash. report
	apricot	Hungary	R. A. M. 27:139. 1948	
Prunus armeniaca L.	apricot	Cal., Utah, Wash.	Weiss V: 957. 1953	
Prunus avium L.	sweet cherry	Cal.	P. D. R. 38(7):438. 1954	
	sweet cherry	British Columbia	P. D. R. 38(2): 74. 1954	V. dah.
	Cultivated cherry 5 varieties	Holland	R. A. M. 4:495. 1925	V. a-a, or V. dah.
Prunus cerasifera	Myrobalan, cherry-plum	Hungary	R. A. M. 27:139. 1948	
Prunus cerasus acida Ehrh.	sour cherries		Rud. 302. 1931	
Prunus cerasus austera		Holland	R. A. M. 4:495. 1925	V. a-a, or V. dah.
Prunus domestica L.	garden plum, prune	Cal.	Weiss V: 960. 1953	
	Burbank plum	Italy	B. A. 11(3):4478. 1937	
	Victoria plum	England	R. A. M. 24: 153. 1945	
Prunus mahaleb		Holland	R. A. M. 4:495. 1925	V. dah. or V. a-a
Prunus mahaleb L.	Mahaleb cherry	Cal.	P. D. R. 38(7):438. 1954	
Prunus mume Sieb & Zucc.	Japanese apricot	Cal., Utah, Wash.	Weiss V: 957. 1953	
Prunus persica (L.) Batsch	peach	N. East States, Cal., Ore.	Weiss V: 967. 1953	
	peach	N. J.	P. D. R. Sup. 28:344. 1923	

A -- WOODY PLANTS - Part 1. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
	peach, South Haven variety	New York	P.D.R. 16(12): 132-133. 1932	
Prunus spp.	plum, prune	See ref.	Rud. 303. 1931	
(Pyrus ____)	pear	Holland	R.A.M. 31:477.1952	V. dahliae
(Pyrus ____)	apple	Bulgaria	R.A.M. 11:7456.1932	
Quercus sp.		France	Biol.Abst. 5:22793. 1931	V. dahliae
Robinia pseudo-acacia L.	black locust	Ill.	P.D.R. 22(12):253-4 1938	1st U.S.Rpt.
Robinia pseudo-acacia		Baarn, Holland	R.A.M. 12:665. 1933	
Robinia pseudo-acacia		Italy	B.A. 11(3):5478.1937	
Schinus terebinthifolia Raddi	Brazil pepper-tree	Cal.	Weiss I:42. 1950	
Sophora japonica	Japanese pagoda tree	Italy	R.A.M.15:474. 1936	V.a-a = V.dah. = all other spp.
Sophora japonica		Italy	B.A. 11(3):5478.1937	Isolates considered identical with V.a-a
Theobroma cacao L.	cacao		Rud. 304:1931	See ref.
Tilia americana L.	American linden	Ill.	Weiss V:1141.1953	
Tilia glabra Vent.	American linden	Ill.	P.D.R. 24(6):133-4. 1940	1st report in Ill.
Tilia cordata	lime	Germany	R.A.M. 9:6. 1930	1st report
Tilia euchlora	lime	Germany	R.A.M. 9:6. 1930	1st report

A -- WOODY PLANTS - Part 1. (Concluded)

Scientific Name	Common Name	Location	Reference	Remarks
Tilia parvifolia	lime	Germany	R.A.M. 12:117. 1933	
Ulmus americana L.	American elm	Ill.	P.D.R. 22:253-4. 1938	
Ulmus americana L.	Littleford elm	Ill.	P.D.R. 24:133-4. 1940	
Ulmus americana L.	Moline elm	Ill.	P.D.R. 24:133-4. 1940	
Ulmus montana	elm	Germany	R.A.M. 12:117. 1923	
Ulmus procera Salisb.	English elm	Conn., Mass., N.J., N.Y.	Weiss V: 1154. 1953	Several other European elms incl.-see ref.
Ulmus campestris		Italy	B.A. 11(3):5478. 1937	Isolates considered identical with V. a-a.
Ulmus rubra Muhl.	slippery elm	Pa., Wis.	Weiss V: 1153. 1953	
Ulmus spp.	elm		Rud. 306. 1931.	See ref.

A -- WOODY PLANTS -- Part 2. SHRUBS, BUSHES, SMALL FRUITS, LIANAS

Scientific Name	Common Name	Location	Reference	Remarks
Abroma		Uganda	R. A. M. 18: 575. 1939	V. dahliae
Ampelopsis		Holland	R. A. M. 31:478. 1952	V. dahliae
Aucuba japonica Thunb.	Aucuba	N. J.	Weiss II:226. 1950	
Berberis thunbergii	Japanese barberry	Mass.	P. D. R. 14(19): 201. 1930	
Berberis thunbergii DC.	Japanese barberry	Ill., Mich. Conn. to Va.	Weiss I: 70. 1950	
Berberis thunbergii	Japanese barberry	N. J.	P. D. R. 20(4):80 1936.	V. dahliae
Berberis vulgaris L.	European barberry	Conn.	Weiss I: 70. 1950	
Campsis radicans (L.) Seem.	trumpet vine	Ill.	P. D. R. 29(3): 95-6. 1945	
Capsicum frutescens L.	red pepper, sweet pepper	Cal., Colo., Conn., N. Y., Tex.	Weiss V: 1096. 1953	
Capsicum annum var. Anaheim Chili	pepper	Cal.	P. D. R. 21(22): 404. 1937	
Capsicum annum var. Mexican Chili	pepper	Cal.	P. D. R. 21(22): 404. 1937	
Cistus purpureus Lam.	rock-rose	Cal.	P. D. R. 39:693 1955	1st world report
Clematis sp.		Belgium	R. A. M. 19:134 1946	

A -- WOODY PLANTS - Part 2. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Coffea arabica L.	Coffee		Rud. 305. 1931	See ref.
(Coffea _____)	Coffee	Brazil	R. A. M. 5:422. 1926	
Erica australis Hort.	Heather	Cal.	P. D. R. 34(1):26-7. 1950	1st world report
Erica persoluta L.	Heather	Cal.	P. D. R. 34(1):26-7. 1950	1st world report
Fremontia californica Torr.		Cal.	P. D. R. 24(20):424-5. 1940	1st lit. report
Fremontia spp.		Cal.	P. D. R. 24(20):424-5. 1940	
Fuchsia hybrida Voss		Cal.	P. D. R. 24(20):424-5. 1940	1st lit. report
Fuchsia spp.	Fuchsia	Cal.	Weiss IV: 783. 1952	
Ligustrum amurense Carr.	Amur privet	Ill.	P. D. R. 29(3):95-6. 1945	
Parthenium argentatum A. Gray	Guayule	Cal.	P. D. R. 29(6):180. 1945 P. D. R. 27(2):63-66. 1943	
Parthenium argentatum A. Gray	Guayule	Ariz. Cal. N. Mex. Tex.	Weiss I:200. 1950	
(Photinia _____)	Photinia	Holland	R. A. M. 31:478. 1952	V. dahliae
Pittosporum tobira Ait.	Japanese pittosporum	Cal.	Rud. 327. 1931	
Pittosporum spp.	Pittosporum	Cal.	Weiss V:861. 1953	
Prunus laurocerasus L.	English cherry-laurel	Cal.	Weiss V:976. 1953	
Prunus lusitanica L.	Portugal-laurel	Cal.	Weiss V:976. 1953	
Raphiolepis indica Lindl.	India hawthorn	Cal.	P. D. R. 39:693. 1955	1st report
Raphiolepis umbellata var. integerrima Rehd.	Yeddo hawthorn	Cal.	P. D. R. 39:693. 1955	1st report

A -- WOODY PLANTS - Part 2. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
(Rhododendron _____)	azalea	Mass.	P. D. R. Suppl. 96:263. 1936	
Rhus aromatica Ait.	fragrant sumac	Mass.	Weiss I:39. 1950	
Rhus canadensis Marsh	fragrant sumac	?Europe see ref.	Rud. 310. 1931	
Rhus canadensis Marsh. var. trilobata (Nutt.) Gray	ill-scented sumac	Iowa	Rud. 310. 1931	
Rhus cotinus		Holland	R. A. M. 4:288. 1925	
Rhus cotinus L.	smoke tree	Europe see ref.	Rud. 310. 1931	
Cotinus coggyria Scop	smoke tree	Va.	P. D. R. 21(1):10. 1937	1st U.S. report; present in Europe
Cotinus coggyria Scop.	common smoke-tree	Conn., Ill., Nebr., N. J. N. Y.	Weiss I: 35. 1950	
Rhus glabra		Holland	R. A. M. 4:288. 1925	
Rhus glabra L.	smooth sumac	Europe-see ref.	Rud. 310. 1931	
Rhus glabra L.	smooth sumac	Ill.	P. D. R. 22(12):253-4. 1938	
Rhus trilobata Nutt.	skunkbush sumac	Iowa	Weiss I: 39. 1950	
Rhus typhina	staghorn sumac	Holland	R. A. M. 4:288. 1925	
Rhus typhina	staghorn sumac	Iowa	Weiss I: 39. 1950	
Rhus typhina		Wis.	R. A. M. 12:470. 1933	V. dahliae
Ribes sanguineum var. lombartii		Holland	R. A. M. 4:495. 1925	V. a-a or V. dah.

A -- WOODY PLANTS - Part 2. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Ribes sanguineum Pursh. var. lombartii	Lombart's flowering currant	Probably Holland see ref.	Rud. 330. 1931	V. dah.
Ribes _____		Holland	R.A.M. 9:546.1930	
(Ribes _____)	currants	New South Wales	R.A.M. 29:497.1950	
	black currants	Holland	R.A.M. 4:495.1925	V.a-a, or V. dah.
(Ribes _____)	gooseberry	New Zealand	R.A.M.30:362.1951	
	gooseberries	Holland	R.A.M. 4:495. 1925	V.a-a or V.dah.
Rosa spp.	cultivated rose	Cal., Ill., N.J.	Weiss V: 992. 1953	
	rose	N.Y.	R.A.M. 31:65. 1952	
Rubus allegheniensis Porter	Crandall blackberry	Cal.	P.D.R. 34(1):26.7.1950	1st Cal. report
Rubus spp.	blackberries	Cal., Minn. N.Y., Wash.	Weiss V: 997. 1953	
Rubus idaeus	red raspberry	N.Y.	P.D.R. Suppl. 147. 150-151. 1944	
	red raspberry		P.D.R. 37(2): 117.1953	
Rubus occidentalis	black raspberry	N.Y.	P.D.R. Suppl.147: 150-151. 1944	
Rubus spp.	black raspberry	Mass. to N.Y. and Ohio; Ore., Wash.	Weiss V: 1006. 1953	
	purple raspberry	N.Y.	P.D.R. Suppl. 128: 321-322. 1940	
Rubus rosaefolius var. loganobaccus Bailey	Boysenberry	Wash.	P.D.R.Suppl.119. 191 1939	
Rubus spp.	dewberries, eastern type	Cal.	Weiss V: 1001. 1953	

A -- WOODY PLANTS - Part 2. (Concluded)

Scientific Name	Common Name	Location	Reference	Remarks
Rubus spp.	dewberries -western type	Cal., N.Y., Ore.	Weiss V: 1002, 1953	
	Youngberry (hybrid dewberry)	Cal.	P.D.R.Suppl.128.322.1940	
Rubus ursinus	Pacific coast trailing blackberry	Cal.	R.A.M. 30:332. 1951	
Rubus spp.	dewberries, black-berries, youngberries		Rud. 313-4. 1931	See ref.
Sambucus racemosa		Holland	R.A.M. 4:495. 1925	V.a-a or V.dah.
Sambucus spp.	elder	Md.	Weiss I: 117. 1950	See ref.
Sechium edule Schwartz	chayote	Brazil	Rud. 289. 1931	V.a-a ? see ref.
(Spiraea _____)	Spiraea	Germany	R.A.M.16:286.1937	V.a-a
Syringa vulgaris	lilac	Holland	R.A.M. 4:495. 1925	V.a-a, V.dah.
Viburnum lantana L.	wayfaring-tree	Ill.	P.D.R. 1938.22(12): 253-4	1st report
Viburnum lantana L.		Ind.	P.D.R. 25(9):274.1941	
Viburnum lentago L.	nannyberry	Ore., Wash.	Weiss I: 121. 1950	
Viburnum tinus L.	laurestinus	Ore.	Weiss I: 122. 1950	
Viburnum tomentosum Thunb.	Japanese snowball	Ind.	Weiss I: 122.1950	
Vitis spp.	American bunch grapes		U.S.D.A. Yearbook 1953: 760.	

B -- HERBACEOUS PLANTS -- Part 3. FIELD CROPS, VEGETABLES, SMALL FRUITS

Scientific Name	Common Name	Location	Reference	Remarks
Abutilon avicennae	American jute	Namangan (Turkestan) Russian Central Asia	R. A. M. 13:369. 1934.	V. dahliae
Apium graveolens L.	celery	Cal.	P. D. R. 20(7):125-6. 1936.	
Apium graveolens L. var. dulce DC.	celery	Cal.	Weiss V: 1158. 1953	
Archis hypogaea	peanuts	Europe or Asia?	B. A. 14:5663. 1940	V. dahliae
Armoracia rusticana Gaertn. Mey. & Scherb.	horse-radish	Mich., Wash.	Weiss II: 237. 1950	
	horse-radish	Bavaria	R. A. M. 16:361. 1937	V. dahliae
Beta vulgaris	sugar beet	Col.	P. D. R. Suppl. 149:350. 1944	
	sugar beet	Col.	P. D. R. 27(23):645. 1943	root rot
Beta vulgaris L.	beet	Holland (see ref.)	Rud. 289. 1931.	
Brassica napobrassica Mill.	rutabaga	Cal.	Weiss II: 242. 1950	
Brassica oleracea var. napo-brassica	rutabaga	Cal.	P. D. R. Suppl. 128:254. 1940	
Brassica oleracea var. capitata L.	cabbage	Cal.	P. D. R. 34(1):26-7. 1950	1st world report
Brassica oleracea var. gemmifera Zenk.	brussels sprouts	Cal.	P. D. R. 34(1):26-7. 1950	1st world report
Cannabis sativa	hemp	Namangan (Turkestan) Russian Central Asia	R. A. M. 13:369. 1934	V. dahliae
Citrullus vulgaris Schrad.	watermelon	Cal.	P. D. R. 20(7):125-6. 1936.	1st lit. report.

B -- HERBACEOUS PLANTS - Part 3. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
(Citrullus vulgaris Schrad. var. citroides)	citron, preserving melon		U.S.D.A. Yearbook 1953: 485	
Corchorus capsularis	jute	Namangan (Turkestan) Russian Central Asia	R.A.M. 13: 369. 1934	V. dahliae
Cucumis melo L.	muskmelon, Persian melon	Cal.	P.D.R. 20(7):125-6.1936	
Cucumis melo	cantaloupe		P.D.R.Suppl. 103:187.1937	
Cucumis melo L.	muskmelon	Probably Holland See ref.	Rud. 293. 1931	
Cucumis melo L. var. inodorus Naud.	honeydew melon	Cal.	P.D.R. 22(22):447. 1938	
Cucumis melo L. var. reticulatus Naud.	cantaloupeof trade	Cal., Ore.	Weiss II: 263. 1950	
Cucumis sativus L.	cucumber	Me., Ohio, Ore., Wash., Wis.	Weiss II: 265. 1950	
Cucumis sativus L.	cucumber	Probably Holland see ref.	Rud. 289. 1931	
Cucurbita maxima Dcne.	winter squash	Ore.	Weiss II:267. 1950	
Cucurbita pepo L.	pumpkin		U.S.D.A. Yearbook 1953: 485.	
Cynara scolymus L.	artichoke	France ? see ref.	Rud. 289. 1931	V. dah.
Fragaria chiloensis Duchesne var. ananassa Bailey	strawberry	Cal., N.Y.Ore.	Weiss V: 936. 1953	

B -- HERBACEOUS PLANTS - Part 3. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
(Fragaria _____)	strawberry	Ore.	P.D.R. 20(16):261.1936	1st Ore. report
(Glycine _____)	soy beans	Namangan (Turkestan) Russian Central Asia	R.A.M. 13:369. 1934	V. dahliae
Gossypium barbadense L.	Sea-Island cotton (cultivated cotton)	widespread	Weiss: IV: 7280.1952	
Gossypium herbaceum	cotton	Germany	R.A.M. 12:117. 1933	
Gossypium herbaceum L.	Levant cotton (cultivated cotton)	widespread	Weiss IV: 728. 1952	
Gossypium hirsutum L.	upland cotton (cultivated cotton)	widespread	Weiss IV: 728. 1952	
	cotton	Uganda	R.A.M. 18:575. 1939	V. dah.
Hibiscus esculentus	okra	Namangan (Turkestan) Russian Central Asia	R.A.M. 13:369. 1934	V. dah.
Hibiscus esculentus L.	okra	N. Mex.	P.D.R. 35(3): 169. 1951	
Humulus lupulus L.	common hop	Me., Ore., Ohio, Wis.	Weiss IV: 750. 1952	
Ipomoea batatas (L.) Lam.	sweet potato	Cal.	Weiss II: 223. 1950	
(Linum _____)	flax	Belgium	R.A.M. 24:491. 1945	V. dahliae
Lycopersicon esculentum Mill.	tomato	Cal.	P.D.R. 34(1):26. 1950	
	tomato	Utah	P.D.R. 15(7):65. 1931	
Lycopersicon esculentum var. cerasiforme (Dun.) A. Gray	cherry tomato	Throughout U.S.	Weiss V: 1104. 1953	

B -- HERBACEOUS PLANTS - Part 3. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Lycopersicon esculentum f. pyriforme (Dun.) C.H. Mull.	pear tomato	Throughout U.S.	Weiss V:1104. 1953	
Manihot utilissima Pohl	tapioca plant	Brazil	Rud. 310. 1931	V. a-a? see ref.
(Manihot _____)	cassava	Uganda	R.A.M. 18:575. 1939	V. dah.
Medicago hispida	bur clover	Cal.	R.A.M. 10:757. 1931	
(Medicago sativa L.)	lucerne (alfalfa)	Denmark, Islands of Fünen, Möen	R.A.M. 24:451-452. 1945	
	alfalfa	Germany	B.A. 24:25186. 1950	
Mentha piperita	peppermint	Mich.	P.D.R. 19(20):313-314. 1935	V. dahliae
	peppermint	Ind., Mich.	P.D.R. 34(12):392. 1950	V. a-a var. menthae Nelson
Mentha piperita L.	peppermint	Ind., Mich., Ore.	Weiss. P.D.R. Index IV: 565. 1952	
Mentha spicata L.	spearmint	Ind., Mich.	Weiss. P.D.R. Index IV: 565. 1952	
Nicotiana tabacum L.	tobacco	Tenn.	Weiss V: 1112. 1953	
	tobacco	Ky.	P.D.R. 18(12):153. 1934	
Onobrychis sativa	sainfoin	Germany	R.A.M. 17: 754. 1938	V. a-a
(Onobrychis _____)	sainfoin	England	B.A. 20:18615. 1946	V. dahliae
Phaseolus vulgaris L.	kidney bean	Brazil, see ref.	Rud. 293. 1931	
Raphanus sativus L.	icicle radish	Cal.	P.D.R. 34(1):26-7. 1950	1st world report
Rheum rhaponticum Linn	rhubarb	Cal., Ireland	P.D.R. 39:693. 1955	

B -- HERBACEOUS PLANTS - Part 3. (Concluded)

Scientific Name	Common Name	Location	Reference	Remarks
Ricinus communis	castor bean	Europe or Asia?	B.A. 14:5663. 1940	V. dahliae
Sesamum indicum	sesame	Namangan (Turkestan) Russian Central Asia	R.A.M. 13:369. 1934	V. dahliae
Sesamum indicum	sesamum	Europe or Asia?	B.A. 14:5663. 1940	V. dahliae
Sesamum orientale	simsim	Uganda	R.A.M. 18:575. 1939	V. dahliae
Solanum integrifolium Poir	scarlet or tomato egg plant	N.Y.	Weiss V: 1118. 1953	
Solanum melongena		N.Y.	B.A. 5:16542. 1931	V. dahliae
	egg plant	Mass	P.D.R. 12(10): 119. 1928	
Solanum tuberosum	potato	Maine	P.D.R. 37(9):456. 1953	
Solanum tuberosum L.	potato	General in U.S.	Weiss V: 1127. 1953	
(Spinacia _____)	spinach		R.A.M. 31:224. 1952	V. dahliae (on seeds)
Tetragonia expansa Thunb.	New Zealand spinach	Cal.	P.D.R. 39:693. 1955	1st report
Tephrosia		Uganda	R.A.M. 18:575. 1939	V. dah.
(Trifolium _____)	clover	Germany	R.A.M. 16:361. 1937	V. dah.
Vigna sesquipedalis W.F. Wright	Chinese yard-long bean	Cal.	P.D.R. 39:693. 1955	1st report
Vigna sinensis Endl.	cow pea	Cal.	P.D.R. 20(7):125-6. 1936	

B - HERBACEOUS PLANTS -- Part 4. ORNAMENTALS, "FLOWERS", WEEDS

Scientific Name	Common Name	Location	Reference	Remarks
Abutilon sp.	flowering maple	New Jersey	P. D. R. 24(12):243. 1940	
Abutilon			Phytopath 6: 393. 1914	weed
Aconitum napellus		Holland	R. A. M. 4: 496. 1925	
Amaranthus retroflexus	rough pigweed	Cal.	R. A. M. 10: 757. 1931	
Amaranthus sp.	pigweed	Ore.	R. A. M. 16: 192. 1937	
Antirrhinum majus		Holland	R. A. M. 4: 495. 1925	V. a-a or V. dah.
Antirrhinum majus L.	snapdragon	Cal., Conn., Me., Mass., Minn., N. J., Pa., N. Y.	Weiss V: 1082. 1953	
Aralia cordata Thunb.	udo	Md.	Weiss I: 59. 1950	herb
Aralia cordata Thunb.	udo		P. D. R. Suppl. 34: 243. 1924	perennial not woody
Aralia racemosa L.	American spikenard	N. Y.	Weiss I: 59. 1950	per. herb
Aralia racemosa L.	American spikenard	N. Y.	Rud. 319. 1931	V. dah.
Aster sp.	aster	Other than U. S.	Rud. 319. 1931	See ref.
Aster spp. (See ref.)	aster	Conn.	Weiss I: 161. 1950	
Atropa belladonna	belladonna	Cal.	P. D. R. Suppl. 149:381. 1944	herb
Begonia spp.	begonia	Conn., N. Y.	Weiss I: 68. 1950	
Calceolaria spp.	slipperwort	N. Y., Wash.	Weiss V: 1084. 1953	
Callirhoe papaver (Cav.) A. Gray	poppy-mallow	N. Y.	Weiss IV: 724. 1952	herb
Callistephus chinensis Nees.	aster	Cal.	P. D. R. 24(20):424-5. 1940	1st U. S. report common in Europe

B -- HERBACEOUS PLANTS - Part 4. (Continued)

B -- HERBACEOUS PLANTS - Part 4. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Campanula isophylla	bell flower	England	R.A.M. 30: 416. 1951	herb
Capsicum		Uganda	R.A.M. 18: 575. 1939	V. dah.
Capsicum sp.	pepper	Europe ? see ref.	Rud. 294. 1931	
Carthamus tinctorius	saffron (safflower)	Europe or Asia ?	B.A. 14:5663. 1940	V. dahliae herb.
Celosia argentea var. cristata		Cal.	P.D.R. 30(6):210.1946	annual
Centaurea cyanus L.	cornflower, bachelors-button	N.Y.	Weiss I: 168. 1950	herb
Centaurea cyanus			P.D.R. 30(6):210. 1946	annual
Centaurea imperialis		Cal.	P.D.R. 30(6):210. 1946	"apparently new host"
Chenopodium album		Holland	R.A.M. 4: 495. 1925	V.a-a or V.dah.
Chenopodium album	fat hen	New Zealand	R.A.M. 30: 20. 1951	
Chenopodium album L.		Prob. Holland See ref.	Rud. 330. 1931	V. dah.
Chenopodium	goosefoot	Germany	R.A.M. 15:237. 1936	
Chrysanthemum frutescens L.	marguerite	N.J.	Weiss I: 170. 1950	
Chrysanthemum frutescens		N.J.	P.D.R. Suppl. 96:266. 1936	V. dahliae
Chrysanthemum hortorum		N.J., Wash.	P.D.R. Suppl. 96:267. 1936	V. dahliae
Chrysanthemum indicum Cass	Italian chrysanthemum	N.J.	Rud. 322. 1931	
Chrysanthemum indicum		Holland	R.A.M. 4:495. 1925	V.a-a or V.dah.

B -- HERBACEOUS PLANTS - Part 4. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Chrysanthemum leucanthemum L.	ox-eye daisy	N.J.	Rud. 322. 1931	
Chrysanthemum leucanthemum		Holland	R.A.M. 4: 495. 1925	V.a-a or V.dah.
Chrysanthemum maximum var. Shasta Daisy		Cal.	P.D.R. 30(6):210. 1946	"apparently new host"
Chrysanthemum morifolium		Germany	R.A.M. 12:117. 1933	V.a-a
Chrysanthemum morifolium (Ramat.) Hemsl. (see ref.)	chrysanthemum	Ill., Ind., Md., Mass., Mich., N.J., N.Y., Ohio, Pa., Wash.	Weiss I: 169. 1950	
Cichorium intybus	French endive	Europe-possibly Holland	B.A. 13: 4961. 1939	V. dahliae
(Cichorium _____)	chicory	Belgium	R.A.M. 31:101. 1952	V. dahliae
Clarkia elegans Dougl.	Clarkia	Cal.	Weiss IV: 781. 1952	
Coreopsis lanceolata L.	tickseed	N.Y.	Weiss I: 175. 1950	
Crotalaria juncea	sann hemp	Uganda	R.A.M. 18: 575. 1939	V. dahliae
Crotalaria juncea	sann hemp		R.A.M. 29:210. 1950	V. dahliae
Crotalaria striata		Uganda	R.A.M. 18: 575. 1939	V. dahliae
Dahlia variabilis		Holland	R.A.M. 4:495. 1925	V.a-a or V.dah.
Dahlia variabilis (Willd.) Desf. (see ref.)	dahlia	Ill., Mich., Mo., N.J., Ohio, Tex.	Weiss I: 178. 1950	
Daphne mezereum		Holland	R.A.M. 4: 495. 1925	V.a-a or V.dah.
Daphne mezereum L.	Daphne	Prob. Holland see ref.	Rud. 325. 1931	V. dah.

B -- HERBACEOUS PLANTS - Part 4. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Delphinium ajacis L.	rocket larkspur	N.Y.	Weiss V: 908. 1953	
Delphinium cultorum Voss or D. hybridum Hort.	larkspur	Wash.	Weiss V: 908. 1953	
Dianthus caryophyllus	carnation		P.D.R.Suppl.90:110.1935	V. dahliae
Dianthus caryophyllus L.	carnation	N.J.	Weiss I: 128. 1950	V. dahliae
Digitalis purpurea L.	fox-glove	N.Y.	Weiss V: 1085. 53	
Dimorphotheca aurantiaca DC	Cape marigold	Iowa	Weiss I: 178. 1950	
Erigeron canadensis		Holland	R.A.M. 4: 496. 1925	V.a-a or V.dah.
Erigeron canadensis L.		Probably Holland see ref.	Rud. 330. 1931	V. dah.
Erigeron spp. (see ref.)	fleabane	Mass.	Weiss I: 182. 1950	
Eschscholtzia californica		Holland	R.A.M. 4: 495. 1925	V. dah. V.a-a
Eschscholtzia californica	California poppy	Cal.	R.A.M. 15:150. 1936	
Euphorbia milii Desmoul.	crown of thorns	N.J.	Weiss II: 332. 1950	
(Geranium _____)	geranium	Ore.	P.D.R. 36(2):51	
Gerbera jamesoni Bolus	Transvaal daisy	Cal.	P.D.R. 34(1):26. 1950	1st world report
Gnaphalium margaritaceum			Rud. 330. 1931	V. dah.
(Helianthus _____)	sunflower	Siberia	R.A.M. 22:111. 1943	V.dah.(loc.cit.)
Helichrysum bracteatum	strawflower	Cal.	P.D.R. 30(6):210. 1946	
Heliotropium arborescens L.	common heliotrope	Md.	Weiss I: 96. 1950	

B -- HERBACEOUS PLANTS - Part 4. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Heliotropium peruvianum	common heliotrope	Wash. D. C.	P. D. R. Suppl.73:385. 1929	
Impatiens balsamina L.	garden balsam	N. Y.	Weiss I: 66. 1950	
Lathyrus odoratus L.	sweet pea	Europe-see ref.	Rud. 333. 1931	
Lathyrus odoratus L.	sweet pea	N. J., N. Y.	Weiss-P. D. R. Index IV: 614 1952.	
Liatris pycnostachya Michx.	gay-feather	N. J.	Weiss I: 198. 1950	
Liatris scariosa Willd.	gay-feather	N. J.	Weiss I: 198. 1950	
Liatris sp.	gay-feather	N. J.	P. D. R. Suppl. 90:113. 1935	
Lupinus polyphyllus		Holland	R. A. M. 4:495. 1925	V. a-a or V. dah.
Lychnis chalcedonica L.	Maltese cross	Prob. Holland see ref.	Rud. 329. 1931	
Malva sp.	mallow	Cal.	R. A. M. 10:757. 1931	
Mathiola incana R. Br.	garden stock		P. D. R. 34(1):26-7. 1950	
Monarda didyma L.	Oswego tea	Prob. Holland see ref.	Rud. 330. 1931	V. dah.
Monarda fistulosa L.	wild bergamot	Mich.	R. A. M. 31:576. 1952	V. a-a var. menthae n. var.
Paeonia lactiflora Pall.	peony	Ill., Kan., Md., N. Y., Ohio	Weiss V: 913. 1953	(includes V. dahliae)
Paeonia officinalis L.	peony	Ill., Kan., Md., N. Y., Ohio	Weiss V: 913. 1953	(includes V. dahliae)
Panax quinquefolium L.	American ginseng	Ind., Ky., Mich., N. J., N. Y. Ohio, Pa., Tenn., Wis.	Weiss I: 62. 1950	
Papaver bracteatum		Germany	R. A. M. 12:117. 1933	

B -- HERBACEOUS PLANTS - Part 4. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Papaver orientale L.	oriental poppy	N.Y.	Weiss IV: 802. 1952	
Papaver orientale	oriental poppy	England	R.A.M. 32:626. 1953	
Papaver spp.	poppy	N.Y.	Weiss IV: 802. 1952	
Pelargonium domesticum Bailey	Lady Washington type	Cal.	P.D.R. 24(20):424-425. 1940	1st lit. rept.
Pelargonium hortorum		Cal.	P.D.R. 24:424-5. 1940	1st lit. rept.
Pelargonium hortorum (x P. zonale Willd.)	fish geranium	Cal.	Weiss II:378. 1950	
Petunia hybrida		Cal.	P.D.R. 30(6):210. 1946	1st report.
Phlox carolina L.	thick-leaf phlox	Minn.	Weiss V: 870. 1953	
Phlox decussata		Holland	R.A.M. 4:496. 1925	
Phlox decussata		Hungary	R.A.M. 15:444. 1936	
Phlox drummondii Hook	phlox	N.Y.	Weiss V: 870. 1953	
Phlox paniculata L. (incl. hort. forms and hybrids termed P. decussata Hort.)	summer perennial phlox	N.Y.	Weiss V: 870. 1953	
Phlox spp.	phlox	Minn.	P.D.R. Suppl. 28:370. 1940	
Physalis alkekengi L.	Chinese lantern-plant, winter cherry	N.Y.	Weiss V: 1116. 1953	
Physalis francheti	Lantern groundcherry		P.D.R. Suppl. 119. 284. 1939	1st report
Polemonium spp.	Polemonium	N.Y.	Weiss V: 870. 1953	

B -- HERBACEOUS PLANTS - Part 4. (Continued)

Scientific Name	Common Name	Location	Reference	Remarks
Pyrola asarifolia Michx.	pink pyrola or wintergreen	Mass., N.J., N.Y.	Weiss V: 900. 1953	
Pyrola elliptica Nutt.	shinleaf, wild lily-of-the-valley	Mass.	Weiss V: 900. 1953	
Reseda odorata L.	mignonette	N.Y.	Weiss V: 917. 1953	
Rudbeckia hirta L.	black-eyed susan	N.Y.	Weiss I:203. 1950	
Salpiglossis sinuata Ruiz & Pav.	painted-tongue	N.Y.	Weiss V: 1117. 1953	
Salvia farinacea		Cal.	P.D.R. 30(6):210. 1946	
Schizanthus pinnatus		Cal.	P.D.R. 30(6):210. 1946	
Senecio cruentus (Mass.) DC. (including hybrids derived mainly from this)	florists' cineraria	N.J., N.Y., Wash.	Weiss I: 205. 1950	
Senecio vulgaris	groundsel	Ore.	R.A.M. 16:192. 1937	
Senecio vulgaris		Holland	R.A.M. 4:495. 1925	V. a-a or V. dah.
Senecio spp.	groundsel, ragwort	Wash.	Weiss I: 207. 1950	
Sida spinosa L. (a weed)	prickly mallow	South Africa	R.A.M. 27:473. 1948	V. dah.
Sisymbrium irio (L.) Britton	blue-eyed-grass, satin flower	N. Mex.	P.D.R. 35(3):169. 1951	1st report
Solanum carolinense L.	Carolina horsenettle	Maryland, N.Y.	Weiss V: 1120. 1953	

B -- HERBACEOUS PLANTS - Part 4. (Concluded)

Scientific Name	Common Name	Location	Reference	Remarks
Solanum elaeagnifolium Cav.	silverleaf nightshade, white horsenettle	N. Y.	Weiss V: 1120. 1953	
Solanum floridanum Shuttlew.	wild Florida eggplant		Rud. 334. 1931	Vert. ? see ref.
Solanum marginatum L.			Rud. 327. 1931	Vert. ? see ref.
Solanum nigrum		Holland	R. A. M. 4: 496. 1925	V. a-a or V. dah.
Solanum nigrum L.	nightshade weed	Cal.	P. D. R. 34(1):26-7. 1950	1st U.S. report
Solanum nigrum	black nightshade	New Zealand	R. A. M. 30:20. 1951	
Solanum nigrum L. (incl. var. villosum Mill.)	black nettle	Cal.	Weiss V: 1120. 1953	
Solanum pyracanthum Jacq.			Rud. 327. 1931	Vert. ? see ref.
Solanum rostratum Dunal	beaked nettle, buffalo bur	N. Y.	Weiss V: 1120. 1953	
Solanum torvum Sw.	berenjena cimarrona	General in U.S.	Weiss V: 1122. 1953	
Taraxacum officinale	dandelion	Cal.	R. A. M. 10: 757. 1931	
Tephrosia		Uganda	R. A. M. 18: 575. 1939	V. dahliae
Trapopogon porrifolius L.	salsify	N. Y.	Weiss I: 214. 1950	
Urtica urens		Holland	R. A. M. 4:495. 1925	V. a-a or V. dah.
Urtica	stinging nettle	Germany	R. A. M. 15:237. 1936	
Venidium sp.		N. J.	P. D. R. Suppl. 96:288. 1936	V. dahliae
Xanthium commune Britton		N. Mex.	P. D. R. 35(3):169. 1951	
Xanthium			Phytopath. 6:393. 1914	